

Amendments to the Claims

This listing of the claims will replace all prior versions and listings of the claims in the application:

1. (currently amended) A receiver in a digital broadcast system comprising:

a memory device for storing content from a transmitted broadcast signal using said digital broadcast system, the content comprising data files, said data files each being partitioned into segments that are interspersed in said transmitted broadcast signal, said transmitted broadcast signal being provided with at least one header prior to transmission to said receiver that comprises~~comprising~~ information indicating the number of said segments that constitute at least one of said data files and information to identify each of said segments;

a reception device for receiving said transmitted broadcast signal and processing said broadcast signal to obtain at least part of said content including said segments corresponding to at least one of said data files therein; and

a processing device connected to said memory device and said reception device and being programmable to use said at least one header in said transmitted broadcast signal to determine the size of at least one section in said memory device to allocate for storing the data file, to store said segments corresponding to the data file in said allocated section, and to monitor the progress of the storage of said segments in said allocated section, said at least one header comprising data to indicate how much of said memory device needs to be allocated to store the data file.

2. (currently amended) A receiver as claimed in claim 1, further comprising at least one output device connected to said processing device, said processing device being programmable to determine which of said segments corresponding to the data file has been stored in said memory device using said information to identify each of said segments and to generate an alert message on said at least one output device when each of said segments corresponding to the data file has been stored in said memory device.

3. (canceled)

4. (original) A receiver as claimed in claim 1, wherein said segments are assigned unique identification codes that indicate their order in the data file, wherein said at least one header comprises segment headers for respective ones of said segments, said segment headers each comprising a first field indicating the total number of segments in the data file, and a second field indicating the corresponding one of said identification codes.

5. (original) A receiver as claimed in claim 4, wherein said processing device is operable to determine how much of said memory needs to be allocated to store the data file using said first field in the first one of said segments that is received.

6. (original) A receiver as claimed in claim 4, wherein said segment headers comprise an auxiliary data field comprising an expiration data for the data file corresponding thereto.

7. (original) A receiver as claimed in claim 4, wherein said digital broadcast system can be used to broadcast a plurality of messages that are each assigned a message identification code to indicate which of a plurality of receivers in said digital broadcast system are to receive the corresponding message, each of said plurality of messages comprising one of said data files, said segment headers further comprising a message identification code, said processing device being programmable to store at least one said message identification code and to discard said segments corresponding to said plurality of messages having a different said message identification code.

8. (original) A receiver as claimed in claim 7, wherein said message identification code can correspond to said receivers in vehicles of a particular manufacturer and at least one of a vehicle model and year of manufacture.

9. (original) A receiver as claimed in claim 1, wherein said at least one header provides a unique identification code for each of said segments belonging to the data file and indicates in what order said segments are to appear in the data file for playback, said processing device being programmable to determine which of said segments in the data file have not been received and stored in said memory device.

10. (currently amended) A receiver ~~as claimed in claim 9~~, in a digital broadcast system comprising:

a memory device for storing content from a transmitted broadcast signal using said digital broadcast system, the content comprising data files, said data files each being partitioned into segments that are interspersed in said transmitted broadcast signal, said transmitted broadcast signal being provided with at least one header comprising information indicating the number of said segments that constitute at least one of said data files and information to identify each of said segments;

a reception device for receiving said transmitted broadcast signal and processing said broadcast signal to obtain at least part of said content including said segments corresponding to at least one of said data files therein; and

a processing device connected to said memory device and said reception device and being programmable to use said at least one header in said transmitted broadcast signal to determine the size of at least one section in said memory device to allocate for storing the data file, to store said segments corresponding to the data file in said allocated section, and to monitor the progress of the storage of said segments in said allocated section, said at least one header

comprising data to indicate how much of said memory device needs to be allocated to store the data file;

wherein said at least one header provides a unique identification code for each of said segments belonging to the data file and indicates in what order said segments are to appear in the data file for playback, said processing device being programmable to determine which of said segments in the data file have not been received and stored in said memory device; and

wherein the data file is rebroadcast at least once, said processing device being operable to determine which of said segments corresponding to the data file have been stored and to store said segments that are rebroadcast if said segments are not yet stored in said memory device, and to discard said segments that are rebroadcast if said segments were previously stored in said memory device.

11. (original) A receiver as claimed in claim 10, wherein said processing device is provided with rebroadcast information and is operable to automatically operate said receiver at a selected time of day to receive and store said segments that are not yet stored in said memory device using said rebroadcast information.

12. (original) A receiver as claimed in claim 1, wherein said memory device comprises a first portion for storing respective ones of said data files for which all of the corresponding said segments have been received, and a second portion for storing at least part of other said data files while said segments corresponding thereto are being received.

13. (currently amended) A method of transmitting content comprising data files comprising the steps of:

assigning each of said data files a message identification code to indicate which of a plurality of receivers in said digital broadcast system are to receive the corresponding data file;

partitioning said data files each being partitioned into segments;

assigning said segments in respective said data files with unique identification codes that indicate the order of said segments in a corresponding one of said data files;

interspersing said segments in said broadcast signal; and

providing said broadcast signal prior to transmission to said receivers with segment headers for respective said segments that each comprise a corresponding said message identification code, a first field indicating the total number of said segments in the corresponding one of said data files, and a second field indicating said identification code of the segment.

14. (original) A method as claimed in claim 13, further comprising the step of rebroadcasting said segments and corresponding said segment headers at least once

15. (original) A method as claimed in claim 13, wherein said segment headers comprise an expiration date for the corresponding one of said data files

16. (original) A method as claimed in claim 13, wherein said segment headers can correspond to said receivers in vehicles of a particular manufacturer and at least one of a vehicle model and year of manufacture.

17. (currently amended) A method of implementing a file transfer from a broadcast station to a receiver in a digital broadcast system comprising the steps of:

receiving a transmitted broadcast signal having content, said transmitted broadcast signal comprising content comprising data files, said data files each being partitioned into segments that are interspersed in said broadcast signal, said transmitted broadcast signal being transmitted with at least one header prior to transmission to said receiver that comprises~~comprising~~ information

indicating the number of said segments that constitute at least one of said data files and identifying each of said segments;

selecting one of said data files to store in a memory device;

allocating a portion of said memory device that corresponds in size to the number of said segments that constitute said selected data file as indicated by said information in said at least one header;

analyzing said information in said at least one header to identify said segments received via said transmitted broadcast signal and corresponding to said selected data file; and

storing said segments in said portion of said memory device that correspond to said selected data file.

18. (original) A method as claimed in claim 17, further comprising the step of monitoring which of said segments corresponding to said selected data file have not yet been received and stored in said portion of said memory device

19. (currently amended) A method ~~as claimed in claim 17, of implementing a file transfer from a broadcast station to a receiver in a digital broadcast system comprising the steps of:~~

receiving a transmitted broadcast signal having content, said transmitted broadcast signal comprising content comprising data files, said data files each being partitioned into segments that are interspersed in said broadcast signal, said transmitted broadcast signal being transmitted with at least one header comprising information indicating the number of said segments that constitute at least one of said data files and identifying each of said segments;

selecting one of said data files to store in a memory device;

allocating a portion of said memory device that corresponds in size to the number of said segments that constitute said selected data file as indicated by said information in said at least one header;

analyzing said information in said at least one header to identify said segments received via said transmitted broadcast signal and corresponding to said selected data file; and
storing said segments in said portion of said memory device that correspond to said selected data file;

wherein said selected data file is rebroadcast at least once, and further comprising the steps of

analyzing said information relating to the rebroadcast said segments;

storing the rebroadcast said segments that are determined to have not been previously stored in said portion of said memory device; and

discarding the rebroadcast said segments that are in said portion of said memory device.

20. (previously presented) A method as claimed in claim 17, wherein said receiver is provided with rebroadcast schedules for said data files and further comprising the steps of:

determining that said portion of said memory device is a selected percentage full;

determining via said rebroadcast schedules when the selected said data file is to be rebroadcast;

operating said receiver to automatically tune to said transmitted broadcast signal when the selected said data file is scheduled for rebroadcast;

extracting said segments corresponding to said selected data file have not yet been received and stored in said portion of said memory device; and

storing the extracted said segments in said portion of said memory device.

21. (original) A method as claimed in claim 17, wherein said data files are assigned message identification codes to indicate which of a plurality of receivers in said digital broadcast system

are to receive the corresponding data file, said at least one header further comprising a message identification code, and further comprising the steps of:

storing at least one said message identification code in said memory device;

locating and storing said segments received via said broadcast signal that constitute the data file identified via the stored said message identification code; and

discarding said segments received via said broadcast signal that constitute said data files that are not identified via the stored said message identification code.